

STEEL PIPE POLE BASE AND REINFORCING METHOD THEREOF

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ABSTRACT OF THE DISCLOSURE

10 The present invention: provides a steel pipe pole
base and a method for reinforcing the steel pipe pole
base that do not allow the strength to lower in the
vicinity of the weld toe of a rib even in the event of
applying repeated bending moment; and is characterized by
forming peening processed portions 20 by ultrasonic
vibration at the weld toes 16 of tabular ribs 12 welded
15 to the base of a steel pipe pole 10 in the form of a T-
joint or the weld toes of inverted-U shaped ribs 13 or
inverted-V shaped ribs 14, the ribs being bent at the
upper end portions, welded to the base of a steel pipe
pole 10 in the form of a T-joint. Preferable treatment
20 conditions are 20 to 50 μm in amplitude and 10 to 50 kHz
in frequency. In particular, the present invention makes
it possible to remarkably improve the fatigue property
because stress concentration is relaxed by the synergetic
effect of bending the upper end portions 16 of the ribs
25 13 and applying a peening treatment.